CLAIMS

1. A two-sided illuminated panel, comprising a first diffuser and a second diffuser arranged so as to face each other and adapted to form internally at least one chamber, said chamber being closed laterally, characterized in that it comprises one or more light sources supported laterally, and in that it comprises at least one partition arranged diagonally within said chamber, which is adapted to equalize the light emitted by said one or more light sources on said first and second diffusers.

2. The illuminated panel according to claim 1, characterized in that said partition is a Lambertian gauze with localized weft density increase, adapted to provide diffusion of the light emitted by said one or more light sources.

3. The illuminated panel according to claim 1, characterized in that said partition is a transparent alveolate panel, adapted to provide refraction and diffraction of the light emitted by said one or more light sources.

4. The illuminated panel according to claim 1, characterized in that said one or more light sources are LEDs.

5. The illuminated panel according to claim 1, characterized in that said first and second diffusers are opalescent diffusers.

6. The illuminated panel according to claim 1, characterized in that said first and second diffusers are transparent alveolate panels.

7. The illuminated panel according to one or more of the preceding claims, characterized in that said partition is arranged diagonally within said chamber of said illuminated panel, so as to cover said one or more LEDs supported by one of covering elements arranged to close laterally the chamber and so as to leave exposed said one or more LEDs supported by another one of said covering elements.

8. The illuminated panel according to claims 1, 3, 6 and 7, characterized in that the cannulas of said transparent alveolate diffusers and the cannulas of said transparent alveolate partition are arranged at right angles to the light emission setting of said one or more light sources.

9. The illuminated panel according to claim 8, characterized in that said diffusers and said partition are formed monolithically.

10. The illuminated panel according to claim 1, characterized in that said first and second diffuser elements form a plurality of chambers arranged parallel and adjacent to each other.

11. The illuminated panel according to claim 10, characterized in that said covering elements support a plurality of LEDs, each LED facing a respective one of said chambers, a partition being arranged diagonally within each one of said chambers, said partition being adapted to equalize the light emitted by said LEDs.

12. The illuminated panel according to claim 11, characterized in that said partition is a Lambertian diffuser element constituted by a continuous band that is adapted to lie diagonally within a chamber in order to pass into the directly adjacent chamber diagonally in a zigzag configuration.

13. The illuminated panel according to claim 12, characterized in that said band is a white band of elasticized gauze.

14. The illuminated panel according to claim 12, characterized in that said band is an opalescent elastomeric band.

15. The illuminated panel according to claim 12, characterized in that said band is a continuous band that is adapted to twist in a helical fashion inside each one of said chambers formed in said body.

16. The illuminated panel according to claim 15, characterized in that said band arranged in a helical shape is rotated through 180° over the entire length of each one of said chambers formed in said body.

17. The illuminated panel according to claim 11, characterized in that said partition is constituted by a transparent alveolate panel that is arranged diagonally within each one of said chambers, said panel being adapted to produce refraction and diffraction of the light emitted by said LEDs.

18. The illuminated panel according to claim 17, characterized in that the cannulas of said transparent alveolate partitions are arranged at right angles

to the direction of emission of the light of said LEDs.

19. The illuminated panel according to claim 1, characterized in that it further comprises a panel arranged so as to close upwardly said at least one chamber, said panel having a reflective inner surface.